

Discussion

In this experiment Oscillation I learned how to show the time of vertical oscillation and its relation to the load, determine the spring constant, and to determine the effective mass of the spring.

The graph wasn't a straight line in all the dots due to the loads.

Conclusion

More load more time in a vertical oscillation. This is another way to determine the spring constant which is called as Hook's law.

In the end, I would like to thank you teacher Morthy for your kindness and to make all the experiment clear to understand.